K991055

Osteonics* Spinal System -Rod / Plate System

510(k) Premarket Notification

510(k) PREMARKET NOTIFICATION SUMMARY OF SAFETY AND EFFECTIVENESS OSTEONICS® SPINAL SYSTEM - Rod / Plate System

Submission Information

Name and Address of the Sponsor

of the 510(k) Submission:

Howmedica Osteonics Corp.

59 Route 17

Allendale, NJ 07401-1677

201-825-4900

Contact Person:

Marybeth Naughton

Regulatory Affairs Team Member

Date Summary Prepared:

March 24, 1999

Device Identification

Proprietary Name:

Osteonics® Spinal System -Rod / Plate

System

Common Name:

Spinal Fixation Appliances

Classification Name and Reference:

Spinal Interlaminal Fixation Orthosis

21 CFR 888.3050

Predicate Device Identification

The Osteonics® Spinal System Rod / Plate System components are substantially equivalent to other legally marketed spinal system components. These predicate components are part of the commercially available spinal systems stated below:

- Osteonics® Spinal System Rods and Screws
- VSP® Bone Plates and Bone Screws

Device Description

The Osteonics® Spinal System Rod / Plate System (RPS) is designed for fixation of one or two levels of the lumbar and thoracic spine. The RPS offers options of both a low-profile plate and a stiff rod. The components which comprise the Osteonics® Spinal System Rod / Plate System are: The Rod / Plate, One-Level, Short, the Rod / Plate, One-Level, Long, the Rod / Plate, Two-Level, Long, the 5.0 mm Bone Screw (25mm to 60mm lengths) which are compatible with the rod / plate bone screw holes, the Threaded Cap (which tightens the 5.0mm bone screw to the Rod / Plate), and the Rod / Plate Ball Ring (pre-assembled to the Two-Level, Long Rod / Plate) in order to secure an Osteonics® Spinal System Bone Screw to the two-level rod / plate assembly.

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Intended Use

The subject components of the Osteonics® Spinal System Rod / Plate are single-use devices which are sold non-sterile, and are intended for use only with other components of the commercially available Osteonics® Spinal System. The components of the Osteonics® Spinal System, including the additional components described herein, are available in either ASTM F-136 Ti6Al4V ELI Alloy. Ti6Al4V ELI alloy components are intended for use only with other Ti6Al4V ELI alloy components.

The specific indications of the Osteonics® Spinal System, including the subject additional components, are as follows:

As a non-pedicle screw system of the T4-S2 spine, the Osteonics® Spinal System is indicated for:

- Long and short curve scoliosis
- Vertebral fracture or dislocation
- Spondylolisthesis
- Degenerative disc disease (defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies).
- Previously failed fusion
- Spinal tumor

For Pedicular Use:

- When used as a pedicle screw fixation system of the non-cervical posterior spine in skeletally mature patients, the Osteonics® Spinal System is indicated for one or more of the following: degenerative spondylolisthesis with objective evidence of neurological impairment, fracture, dislocation, scoliosis, kyphosis, spinal tumor, and failed previous fusion (pseudarthrosis).
- In addition, the Osteonics® Spinal System is indicated for pedicle screw fixation in skeletally mature patients with severe spondylolisthesis (Grades 3 and 4) at the L5-S1 joint, having fusions with autogenous bone graft, having the device fixed or attached to the lumbar and sacral spine (with pedicle placement at L3 and below)with removal of the implants after the development of a solid fusion mass.

Statement of Technological Comparison

The components of the Osteonics® Spinal System Rod / Plate System share the same materials, intended uses and basic design concepts as those of the predicate Osteonics® Spinal System devices and VSP® Bone Plates and Bone Screws. Fatigue and static testing demonstrates the comparable mechanical and endurance properties of these components.

DEPARTMENT OF HEALTH & HUMAN SERVICES



AUG 27 1999

Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Ms. Elizabeth A. Staub Vice President, Quality Assurance/Regulatory Compliance/Clinical Research Howmedica Osteonics Corporation 59 Route 17 Allendale, New Jersey 07401-1677

Re: K991055

Trade Name: Osteonics Spinal System Rod/Plate System

Regulatory Class: II

Product Code: MNH and KWP

Dated: June 24, 1999 Received: June 25, 1999

Dear Ms. Staub:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general control provisions of the Act. The general control provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the current Good Manufacturing Practice requirement, as set forth in the Quality System Regulation (QS) for Medical Devices: General Regulation (21 CFR Part 820) and that, through periodic (QS) inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for <u>in vitro</u> diagnostic devices), please contact the Office of Compliance at (301) 594-4659. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or at (301) 443-6597, or at its Internet address "http://www.fda.gov/cdrh/dsmamain.html".

Sincerely yours,

Sar- Celia M. Witten, Ph.D., M.D.

Director

Division of General and Restorative Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

		Page 1 of 1
510(k) Number (if K	nown):	<u> </u>
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(PLEASE DO NOT 'NEEDED	WRITE BELOW THIS	S LINE-CONTINUE ON ANOTHER PAGE IF
	Concurrence of CDR	H, Office of Device Evaluation (ODE)
Prescription Use // (per 21 CFR 801.109	X_OR 	Over-The-Counter Use (Optional Format 1-2-96)
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